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Center for Contaminated Sediments

[U.S. Army Corps of Engineers](#) | [Engineer Research and Development Center](#)
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The U.S. Army Corps of Engineers Center for Contaminated Sediments (CCS) consolidates research expertise to deal with the problem of contaminated sediments. The Center coordinates and facilitates contaminated sediment activities among Corps organizations, the Department of Defense, other federal and state agencies, academia, and the private sector.

Research and development activities support the Corps of Engineers navigation mission as well as work related to military cleanup activities; the Environmental Protection Agency's Superfund and Assessment and Remediation of Contaminated Sediments Programs; and the National Oceanic and Atmospheric Administration's Natural Resource Trustee Program.

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<http://www.wes.army.mil/el/dots/ccs>

Current as of November 1999
Visit website for additions



Expertise

- ⇒ Staff of Experienced Researchers and Technical Specialists
 - ⇒ Civil and Environmental Engineers
 - ⇒ Biologists and Ecologists
 - ⇒ Soil Scientists and Geochemists
- ⇒ Field and Laboratory Support

Capabilities

- ⇒ Site Characterization
- ⇒ Sediment Sampling
- ⇒ Screening Evaluations
- ⇒ Environmental Modeling
- ⇒ Testing and Assessment Protocols
 - ⇒ Bioassays
 - ⇒ Contaminant Pathway Tests
- ⇒ Environmental Impact Evaluations
- ⇒ Risk Assessment
- ⇒ Dredging Technology Evaluations
- ⇒ Dredged Material Placement Evaluations
 - ⇒ Confined Disposal Facilities (CDFs)
 - ⇒ Capping and Contained Aquatic Disposal (CAD)
 - ⇒ Beneficial Use Applications
- ⇒ Sediment Remedial Feasibility Studies
 - ⇒ Monitored Natural Processes
 - ⇒ In Situ Containment and Capping
 - ⇒ Environmental Dredging Options
 - ⇒ Containment Facilities and Controls
 - ⇒ In Situ and Ex Situ Treatment
- ⇒ Site Management and Monitoring Plans
- ⇒ Dredged Material Management Plans

Facilities

- ⇒ Most Modern DoD Environmental Complex
- ⇒ Hazardous Waste Research Facility
 - ⇒ Technology Assessments
 - ⇒ Treatability Studies
- ⇒ Environmental Chemistry Facility
 - ⇒ Methods Research
 - ⇒ Specialty Tests (e.g., Dioxins, Explosives)
- ⇒ Unique Facilities
 - ⇒ FATES
 - ⇒ World's Largest Research Centrifuge

Research Activities and Programs

- ⇒ Dredging Operations and Environmental Research (DOER) Program
 - ⇒ Contaminated Sediments
 - ⇒ Innovative Technologies
 - ⇒ Risk Assessment
- ⇒ Long Term Effects of Dredging Operations (LEDO) Program
- ⇒ Cooperative Research and Development Agreements (CRDAs)
 - ⇒ EPA Laboratories
 - ⇒ EPA Assessment and Remediation of Contaminated Sediments (ARCS) Program
- ⇒ International Activities and Agreements
 - ⇒ London Convention
 - ⇒ US-Japan Sediment Experts
 - ⇒ US-Netherlands Sediment Experts
 - ⇒ Norwegian Environmental Technologies
 - ⇒ International Training

Sponsors

- ⇒ U.S. Army, U.S. Navy, USMC and USCG
- ⇒ USACE Headquarters, Divisions, and Districts
- ⇒ EPA Headquarters and Regions
- ⇒ Natural Resource Trustee Agencies
 - ⇒ NOAA
 - ⇒ FWLS
- ⇒ State Environmental and Resource Agencies

Guidance

- ⇒ USACE/EPA Dredged Material Alternatives Technical Framework
- ⇒ EPA/USACE Dredged Material Testing Manuals for Inland and Ocean Waters
- ⇒ USACE Engineer Manuals on Dredged Material Management
- ⇒ USACE Implementation Memorandum for Sediment Quality Guidelines
- ⇒ USACE/EPA Guidance for Subaqueous Dredged Material Capping
- ⇒ EPA ARCS Remediation Guidance Document
- ⇒ EPA ARCS Contaminant Loss Estimates for Remediation Options
- ⇒ EPA ARCS Guidance for In Situ Subaqueous Capping
- ⇒ International Navigation Association (PIANC) Guidance



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